- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

| Search | Most Recent Queries | Time | Result |
|---|---|---|---|
| #2 | Search **epor agonist** | 08:15:58 | 12 |
| #1 | Search **epor antagonist** | 08:15:28 | 7 |

Clear History

```
FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 FEB 2005  HIGHEST RN 831913-30-5
DICTIONARY FILE UPDATES:  15 FEB 2005  HIGHEST RN 831913-30-5

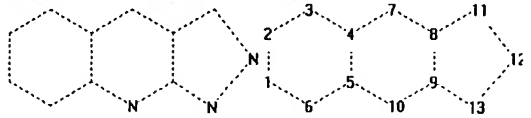
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading H:\DOCS\STN_search\10613754.str
```



```
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13
ring bonds :
1-2  1-6  2-3  3-4  4-5  4-7  5-6  5-10  7-8  8-9  8-11  9-10  9-13  11-12  12-13
exact/norm bonds :
1-2  1-6  2-3  3-4  4-5  4-7  5-6  5-10  7-8  8-9  8-11  9-10  9-13  11-12  12-13
isolated ring systems :
containing 1 :


G1:O,S,NH,H,Ak

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom

L1      STRUCTURE UPLOADED

=>  dis
L1 HAS NO ANSWERS
L1              STR
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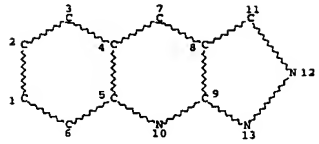

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NODE ATTRIBUTES:
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NSPEC   IS R       AT   3
NSPEC   IS R       AT   4
NSPEC   IS R       AT   5
NSPEC   IS R       AT   6
NSPEC   IS R       AT   7
NSPEC   IS R       AT   8
NSPEC   IS R       AT   9
NSPEC   IS R       AT  10
NSPEC   IS R       AT  11
NSPEC   IS R       AT  12
NSPEC   IS R       AT  13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  13

STEREO ATTRIBUTES: NONE


=> s l1 sam
SAMPLE SEARCH INITIATED 12:11:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     546 TO ITERATE

100.0% PROCESSED      546 ITERATIONS                                50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          9519 TO    12321
PROJECTED ANSWERS:             2301 TO     3779

L2            50 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 12:11:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    9642 TO ITERATE


100.0% PROCESSED     9642 ITERATIONS                          2760 ANSWERS
SEARCH TIME: 00.00.01

L3          2760 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                161.33     161.54

FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005
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FILE COVERS 1907 - 17 Feb 2005  VOL 142 ISS 8
FILE LAST UPDATED: 16 Feb 2005  (20050216/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l3
L4          215 L3

=> l4 and (epor or (erythropoietin (w) receptor))
           435 EPOR
            25 EPORS
           435 EPOR
                (EPOR OR EPORS)
         11254 ERYTHROPOIETIN
           520 ERYTHROPOIETINS
         11284 ERYTHROPOIETIN
                (ERYTHROPOIETIN OR ERYTHROPOIETINS)
        589379 RECEPTOR
        540726 RECEPTORS
        701702 RECEPTOR
                (RECEPTOR OR RECEPTORS)
          1257 ERYTHROPOIETIN (W) RECEPTOR
L5           1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))

=> l4 and (epo or erythropoietin)
          5599 EPO
           131 EPOS
          5703 EPO
                (EPO OR EPOS)
         11254 ERYTHROPOIETIN
           520 ERYTHROPOIETINS
         11284 ERYTHROPOIETIN
                (ERYTHROPOIETIN OR ERYTHROPOIETINS)
L6           1 L4 AND (EPO OR ERYTHROPOIETIN)

=> l5 and l6
L7           1 L5 AND L6

=> d l7 ibib

L7   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:41501  HCAPLUS Full-text
DOCUMENT NUMBER:          140:87744
TITLE:                    Affinity small molecules for the EPO
                          receptor
INVENTOR(S):              Olsson, Lennart; Naranda, Tatjana
PATENT ASSIGNEE(S):       Receptron, Inc., USA
SOURCE:                   PCT Int. Appl., 85 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     --------------      ----   --------    --------------------     --------
     WO 2004005323        A2    20040115    WO 2003-US21394          20030703
     WO 2004005323        A3    20040701
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2004171541        A1    20040902    US 2003-613754           20030702
     US 2004116346        A1    20040617    US 2003-612885           20030703
PRIORITY APPLN. INFO.:                      US 2002-393360P      P   20020703
                                            US 2002-393361P      P   20020703
                                            US 2002-394110P      P   20020703
OTHER SOURCE(S):          MARPAT 140:87744


=> d his

     (FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005)

     FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005
L1              STRUCTURE UPLOADED
L2            50 S L1 SAM
L3          2760 S L1 FUL

     FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005
L4          215 S L3
L5            1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))
L6            1 L4 AND (EPO OR ERYTHROPOIETIN)
L7            1 L5 AND L6
```

```
=> l4 and (epo (w) r)
          5599 EPO
           131 EPOS
          5703 EPO
                (EPO OR EPOS)
       1176738 R
           200 EPO (W) R
L8           1 L4 AND (EPO (W) R)

=> l8 and l7
L9           1 L8 AND L7

=> l4 and cytokine
         81695 CYTOKINE
        120406 CYTOKINES
        151857 CYTOKINE
                (CYTOKINE OR CYTOKINES)
L10          0 L4 AND CYTOKINE

=> l4 and erb
          1047 ERB
            28 ERBS
          1075 ERB
                (ERB OR ERBS)
L11          0 L4 AND ERB

=> l4 and ebp
          3659 EBP
           218 EBPS
          3708 EBP
                (EBP OR EBPS)
L12          0 L4 AND EBP

=> index biosci medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                            30.50     192.04

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
      AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
      BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
      CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 12:18:46 ON 17 FEB 2005

78 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> e diazolohexahydroquinoline
E1           1     DIAZOLODISELENADIAZOCINE/BI
E2           2     DIAZOLODOTOLUENESULPHONIC/BI
E3           3 --> DIAZOLOHEXAHYDROQUINOLINE/BI
E4           2     DIAZOLOHEXAHYDROQUINOLINES/BI
E5           1     DIAZOLOIMIDAZOLOBENZOTHIADIAZOLONES/BI
E6           2     DIAZOLOISOQUINOLINES/BI
E7           1     DIAZOLON/BI
E8          32     DIAZOLONE/BI
E9           9     DIAZOLONES/BI
E10          2     DIAZOLONGIBORNANE/BI
E11          2     DIAZOLONGIBORNANES/BI
E12          1     DIAZOLONIC/BI

<------User Break------>

=> s e3
            1   FILE IFIPAT
  51 FILES SEARCHED...
            2   FILE USPATFULL
  68 FILES SEARCHED...

   2 FILES HAVE ONE OR MORE ANSWERS,   78 FILES SEARCHED IN STNINDEX

L13  QUE DIAZOLOHEXAHYDROQUINOLINE/BI

=> d rank
F1           2   USPATFULL
F2           1   IFIPAT


=> file f1 f2
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
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FULL ESTIMATED COST                             1.77     193.81

FILE 'USPATFULL' ENTERED AT 12:20:28 ON 17 FEB 2005
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FILE 'IFIPAT' ENTERED AT 12:20:28 ON 17 FEB 2005
COPYRIGHT (C) 2005 IFI CLAIMS(R) Patent Services (IFI)

=> s l13
L14          3 L13

=> d l14 1-3 ibib

L14  ANSWER 1 OF 3  USPATFULL on STN
ACCESSION NUMBER:       2004:221770  USPATFULL Full-text
TITLE:                  Affinity small molecules for the EPO receptor
INVENTOR(S):            Olsson, Lennart, Orinda, CA, UNITED STATES
                        Naranda, Tatjana, Mountain View, CA, UNITED STATES

                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 2004171541    A1     20040902
APPLICATION INFO.:      US 2003-613754   A1     20030702  (10)

                              NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 2002-393361P    20020703 (60)
                        US 2002-393360P    20020703 (60)
                        US 2002-394110P    20020703 (60)
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE
                        STREET, 2ND FLOOR, PALO ALTO, CA, 94306
NUMBER OF CLAIMS:       32
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     17 Drawing Page(s)
LINE COUNT:             2046

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14  ANSWER 2 OF 3  USPATFULL on STN
ACCESSION NUMBER:       2004:152124  USPATFULL Full-text
TITLE:                  Affinity small molecules for the EPO receptor
INVENTOR(S):            Olsson, Lennart, Orinda, CA, UNITED STATES
                        Naranda, Tatjana, Mountain View, CA, UNITED STATES

                             NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 2004116346    A1     20040617
APPLICATION INFO.:      US 2003-612885   A1     20030703  (10)

                              NUMBER        DATE
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PRIORITY INFORMATION:   US 2002-393361P    20020703 (60)
                        US 2002-393360P    20020703 (60)
                        US 2002-394110P    20020703 (60)
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE
                        STREET, 2ND FLOOR, PALO ALTO, CA, 94306
NUMBER OF CLAIMS:       22
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     17 Drawing Page(s)
LINE COUNT:             2000
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14  ANSWER 3 OF 3  IFIPAT  COPYRIGHT 2005 IFI on STN
AN                      10609123  IFIPAT;IFIUDB;IFICDB Full-text
TITLE:                  AFFINITY SMALL MOLECULES FOR THE EPO RECEPTOR
INVENTOR(S):            Naranda; Tatjana, Mountain View, CA, US
                        Olsson; Lennart, Orinda, CA, US
PATENT ASSIGNEE(S):     Unassigned
AGENT:                  LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE
                        STREET, 2ND FLOOR, PALO ALTO, CA, 94306, US

                           NUMBER          PK    DATE
                        ----------------- --  --------
PATENT INFORMATION:     US 2004116346     A1  20040617
APPLICATION INFORMATION: US 2003-612885       20030703

                           NUMBER               DATE
                        -----------------      --------
PRIORITY APPLN. INFO.:  US 2002-393360P        20020703 (Provisional)
                        US 2002-393361P        20020703 (Provisional)
                        US 2002-394110P        20020703 (Provisional)
FAMILY INFORMATION:     US 2004116346          20040617
DOCUMENT TYPE:          Utility
                        Patent Application - First Publication
FILE SEGMENT:           CHEMICAL
                        APPLICATION

NUMBER OF CLAIMS:       22  17 Figure(s).
                        DESCRIPTION OF FIGURES:
FIG. 1 shows a graphical representation of a competitive binding assay that may
be used to identify non-peptide EPO-R binding molecules.
FIG. 2 shows a summary of the methods used for assessment of nonpeptide EPO-R
modulators biological activity.
FIG. 3 shows a graph of the proliferative effect of non-peptide EPO-R modulator
E5 in TF-1 cells.
FIG. 4 shows non-peptide EPO-R modulator E5 activation of EPO-R in UT-7 cells.
FIG. 5 shows the effect of non-peptide EPO-R modulator E5A24 on erythroid
colony formation in methylcellulose. Fetal liver cells were isolated and seeded
in the presence of compound. The colonies were counted on day 3.
FIG. 6 shows the effect of non-peptide EPO-R modulator E5 on erythroid colony
formation in methylcellulose. Human bone marrow cells were isolated and seeded
in the presence of compound. The colonies were counted on day 14.
FIG. 7 shows the cooperation between non-peptide EPO-R modulator E5 and EPO on
erythroid colony formation in methylcellulose. CD34+cells were isolated and
seeded in the presence of compound. The colonies were counted on day 14.
FIG. 8 shows cooperation between non-peptide EPO-R modulator EM5A24 and EPO on
erythroid colony formation in methylcellulose. Human bone marrow cells were
isolated and seeded in the presence of compound. The colonies were counted on
day 14.
FIG. 9 shows the effect of non-peptide EPO-R modulator E5 on hematocrit levels
in carboplatin-treated 8 week old C57BL mice. The compound was given i.p.
FIG. 10 shows the cooperative effect between non-peptide EPO-R modulator E6 and
EPO on hematocrit levels in carboplatintreated 8 week old C57BL mice. The
compound was given i.p.
FIG. 11 shows the effect of non-peptide EPO-R modulator E6 on hematocrit levels
in carboplatin-treated 8 week old C57BL mice. The compound was given orally.
FIG. 12 shows the effect of non-peptide EPO-R modulator E5 on reticulocyte
levels in normal mice. The compound was given i.p.
FIG. 13 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on
up-regulation of Bcl-xL expression in TF-1 cells.
FIG. 14 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on
up-regulation of Bcl-xL expression in UT-7 cells.
FIG. 15 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on
increased cell viability of P19 cells after the withdrawal of serum.
FIG. 16 shows the effect of non-peptide EPO-R modulators E5A24 and E5A29 on
increased cell survival of cortical neurons after glutamate challenge.
FIG. 17 shows a summary of activity for non-peptide EPO-R modulators.


=> DIS HIST

     (FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005)

     FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005
L1                STRUCTURE UPLOADED
L2             50 S L1 SAM
L3           2760 S L1 FUL

     FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005
L4           215 S L3
L5             1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))
L6             1 L4 AND (EPO OR ERYTHROPOIETIN)
L7             1 L5 AND L6
L8             1 L4 AND (EPO (W) R)
L9             1 L8 AND L7
L10            0 L4 AND CYTOKINE
L11            0 L4 AND ERB
L12            0 L4 AND EBP

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
     AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
     BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
     CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 12:18:46 ON 17 FEB 2005
               E DIAZOLOHEXAHYDROQUINOLINE
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                SEA E3
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               1    FILE IFIPAT
               2    FILE USPATFULL
L13             QUE DIAZOLOHEXAHYDROQUINOLINE/BI
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     FILE 'USPATFULL, IFIPAT' ENTERED AT 12:20:28 ON 17 FEB 2005
L14            3 S L13

=>

---Logging off of STN---


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Executing the logoff script...

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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
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STN INTERNATIONAL LOGOFF AT 12:21:18 ON 17 FEB 2005
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